



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Bailey, Todd C.
App. No.: 10/755,997 GPAU: 1756
Filing Date: 01/13/2004 Examiner: Unassigned
Dkt. No.: PA99-41D21 Conf. No.: 1475
For: Imprint Lithography Template Having a Feature Size Under
250 nm

INFORMATION DISCLOSURE STATEMENT

Mail Stop AMENDMENT
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

The following information is submitted in compliance with Applicants' duty of disclosure and pursuant to 37 C.F.R. § 1.56, § 1.97 and § 1.98. The undersigned brings the patents, publications, applications or other information identified in the attached:

- ☒ Form(s) PTO/SB/08A and/or PTO/SB/08B or PTO/1449
☐ Other:

to the Examiner's attention in the above-identified application. It is respectfully requested that the cited information be expressly considered during the prosecution of this application, and the references be made of record therein and appear among the "references cited" on any patent to issue therefrom.

This Information Disclosure Statement is being filed:

before the mailing date of a first Office action on the merits or before the mailing date of a first Office action after the filing of a request for continued examination under § 1.114. Therefore, no fee is believed required.

Applicants do not believe that any additional fees are due, but if the Commissioner believes additional fees are due, the

Commissioner is hereby authorized to charge any fees which may be required, or credit any overpayment, to Deposit Account Number 502650.

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I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient postage as either First Class Mail or Express Mail, in an envelope addressed to the Commissioner for Patents.

Signed: Katrina Prati

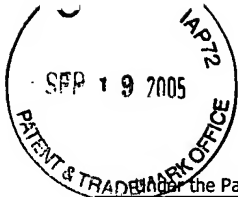
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Respectfully Submitted,



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PTO/SB/08A (08-03)

Approved for use through 7/31/2006. OMB 0651-0031

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				FIRST NAMED INVENTOR	Bailey et al.
				Group Art Unit	1756
				Examiner Name	Unassigned
				Attorney Docket Number	PA99-41D21
Sheet	1	of	6		

U.S. PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code ² (if known)			

	E1	4,959,252		Bonnebat et al.	9/25/1990	
	E2	5,259,926		Kuwabara et al.	9/9/1993	
	E3	5,348,616		Hartman et al.	9/20/1994	
	E4	5,512,131		Kumar et al.	4/30/1996	
	E5	5,545,367		Bae et al.	8/13/1996	
	E6	5,776,748		Singhvi et al.	7/7/1998	
	E7	5,948,470		Harrison et al.	9/7/1999	
	E8	5,952,127		Yamanaka	9/14/1999	
	E9	6,051,345		Huang	4/18/2000	
	E10	6,218,316	B1	Marsh	4/17/2001	
	E11	4,201,800		Alcorn et al.	5/6/1980	
	E12	2004/0150129		Hougham et al.	8/5/2004	
	E13	2004/0202865		Homola et al.	10/14/2004	
	E14	5,937,758		Maracas et al.	8/17/1999	
	E15	6,753,131	B1	Rogers et al.	6/22/2004	
	E16	5,956,216		Chou	9/21/1999	
	E17	5,820,769		Chou	10/13/1998	

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		Office 3	Number ⁴	Kind Code ⁵ (if <i>knBown</i>)				
	E19	WO	87/02935		Long et al.	5/21/1987		
	E20	JP	1-196749		Matsumoto et al.	8/8/1989		
	E21	JP	02192045		Mineo et al.	7/27/1990		
	E22	WO	01/90816		Heidari	11/29/2001		
	E23	WO	02/22916		Pettersson et al.	3/21/2002		
	E24	EP	1460738	A2	Gimkiewicz et al.	9/22/2004		
	E25	JP	61-40845		Matsuo et al.	2/27/1986		
	E26	JP	2-248480		Yoneda et al.	10/4/1990		
	E27	JP	3-90345		Nobuyoshi et al.	4/16/1991		
	E28	JP	9-278490		Toru et al.	10/28/1997		

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				Group Art Unit	1756
Sheet	4	of	6	Examiner Name	Unassigned
				Attorney Docket Number	PA99-41D21

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite ¹ No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²

	E29	FEYNMAN, There's Plenty of Room at the Bottom, 12/1/1959	
	E30	XIA ET AL., Soft Lithography, Angew. Chem. Int. Ed., pp. 550 - 575 1/1/1998	
	E31	KRUG ET AL., Fine Patterning of Thin Sol-gel Films, Journal of Non-Crystalline Solids 147 & 148, pp. 447 - 450 1/1/1992	
	E32	NGUYEN, Asymmetric Fluid-Structure Dynamics in Nanoscale Imprint Lithography, The University of Texas at Austin, pp. 1 - 111 8/1/2001	
	E33	Abstract of Japanese Patent 02-92603, 8/12/2004	
	E34	Abstract of Japanese Patent 02-24848, 1/26/1990	
	E35	SOWAH, Diamond used to Break the Mould, Retrieved 9/2/2003 from URL: http://www.electronicetimes.com/story/OEG20020918S0003 9/18/2002	
	E36	Abstract of Japanese Patent 61-040845, 2/27/1986	
	E37	Abstract of Japanese Patent 02-248480, 10/4/1990	

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	E38	Abstract of Japanese Patent 3-090345, 4/16/1991	
	E39	Abstract of Japanese Patent 09-278490, 10/28/1997	
	E40	Abstract of Japanese Patent 61-040845, 2/27/1986	
	E41	Abstract of Japanese Patent 02-248480, 10/4/1990	
	E42	GEHOSKI ET AL., Indium Tin Oxide Template Development for Step and Flash Imprint Lithography, SPIE Microlithography Conference 2/1/2005	
	E43	DAUKSHER ET AL., Repair of Step and Flash Imprint Lithography Templates, J. Vac. Sci. Technol. B 22(6), pp. 3306-3311 11/1/2004	
	E44	NORDQUIST ET AL., Image Placement Issues for ITO-based Step and Flash Imprint Lithography Templates, J. Vac. Sci. Technol. B, pp. 695-701 3/1/2004	
	E45	DAUKSHER ET AL., Step and Flash Imprint Lithography Template Characterization, from an Etch Perspective, J. Vac. Sci. Technol. B 21(6), pp. 2771-2776 11/1/2003	
	E46	RESNICK ET AL., Imprint Lithography: Lab Curiosity or the Real NGL?, SPIE Microlithography Conference 2/1/2003	

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	E47	MANCINI ET AL., Analysis of Critical Dimension Uniformity for Step and Flash Imprint Lithography, SPIE Microlithography Conference 2/1/2003	
	E48	MANCINI ET AL., Hydrogen Silsesquioxane for Direct Electron-Beam Patterning of Step and Flash Imprint Lithography Templates, J. Vac. Sci. Technol. B 20(6), pp. 2896-2901 11/1/2002	
	E49	DAUKSHER ET AL., Characterization of and Imprint Results Using Indium Tin Oxide-Based Step and Flash Imprint Lithography Templates, J. Vac. Sci. Technol. B 20(6), pp. 2857-2861 11/1/2002	
	E50	NORDQUIST ET AL.Q, Critical Dimension and Image Placement Issues for Step and Flash Imprint Lithography Templates, 22nd Annual BACUS Symposium on Photomask Technology, Monterey, CA 9/1/2002	
	E51	BAILEY ET AL., Template Fabrication Schemes for Step and Flash Imprint Lithography, Microelectronic Engineering, 61-62, pp. 461-467 1/1/2002	
	E52	RESNICK ET AL., High Resolution Templates for Step and Flash Imprint Lithography, SPIE Microlithography Conference 2/1/2002	
	E53	RESNICK ET AL., New Methods for Fabricating Step and Flash Imprint Lithography Templates, NIST-SPIE Conference on Nanotechnology 9/1/2001	

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